



Kennedy Space Center's Coatings Management Program

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KSC Overview

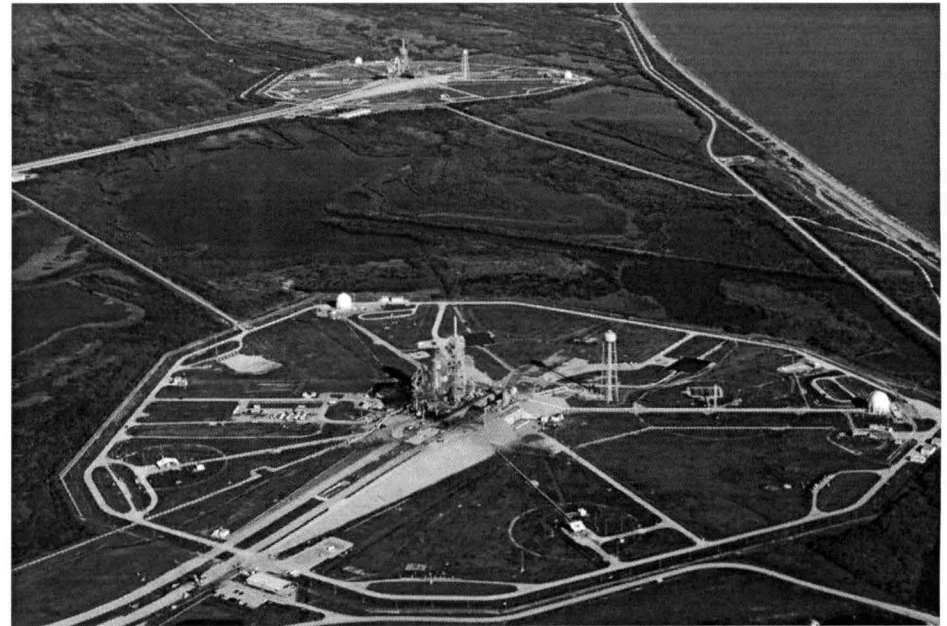


- ◆ **Kennedy Space Center is located on the east coast of Central Florida with much of its infrastructure in close proximity to the ocean**

- Launch pads are located approximately $\frac{1}{4}$ mile from the ocean

- ◆ **Extremely corrosive environment**

- Salt Spray
- Humidity
- Acid residue from Solid Rocket Boosters





◆ **Started to use Coating Management software in 2000**

- Pilot project consisted of Launch Complex 39B
- By 2001, all major structures were baselined
 - Baseline included:
 - Area calculations
 - Dry Film Thickness Readings
 - Condition Photos
 - Coating evaluations
- In 2012, 1.3 million square feet of surface area was inspected

◆ **By the end of 2012, over 100,000 photos and data readings have been taken**



Start Up Issues and Concerns

◆ Initial start up cost and time

- Purchase software, servers, inspection equipment
- Customize program to KSC's needs and requirements
- Develop inspection plans and ratings
- Baseline all systems

◆ Lack of corrosion control awareness

- Corrosion training for system engineers

◆ End user support

- Road shows to demonstrate benefits of program
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◆ **Prioritization**

◆ **Centralized corrosion control program**

- Inspections are done by single independent group eliminating system bias

◆ **Better budget planning**

- Systems prioritized
- Accurate square footage readings

◆ **Lower costs in future**

- Reactive vs Proactive
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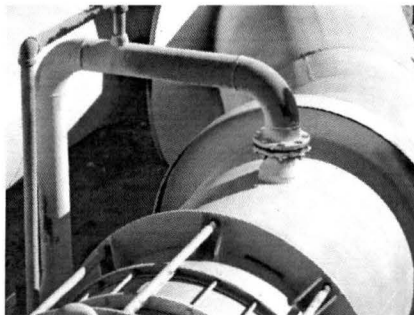
Benefits Continued

◆ Less downtime

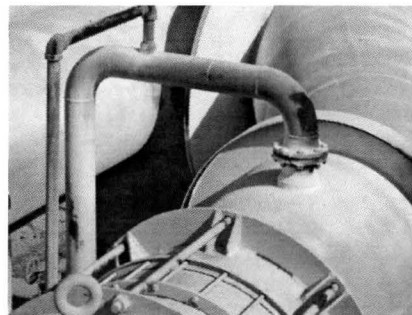
- Better plan outages and shutdown periods

◆ Trending and product evaluation

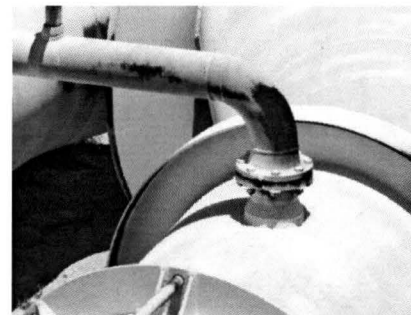
◆ Photo evaluations



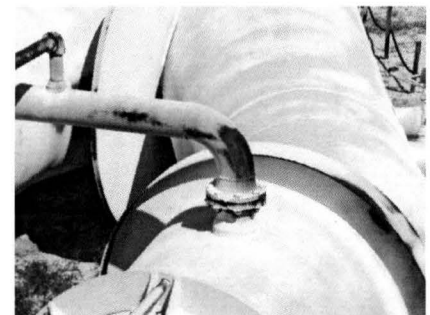
2006



2007



2008



2009
